

Version 1.5 Revision Date 2023-09-11

According to Regulation (EC) No. 1907/2006, Regulation (EC) No. 2020/878

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product information

: TrusTec™ Sulfur Calibration Standard Product Name

: 1127186, 1101143, 1024585, 1024589, 1024588, 1024587, Material

1024586

1.2

1.3

Relevant identified uses of the substance or mixture and uses advised against

Supported

Relevant Identified Uses : Manufacture of plastics products

Details of the supplier of the safety data sheet

Company : Chevron Phillips Chemical Company LP

> Specialty Chemicals 10001 Six Pines Drive The Woodlands, TX 77380

: Chevron Phillips Chemicals International N.V. Local

Airport Plaza (Stockholm Building)

Leonardo Da Vincilaan 19

1831 Diegem Belgium

SDS Requests: (800) 852-5530

Responsible Party: Product Safety Group

Email:sds@cpchem.com

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Emergency telephone:

866.442.9628 (North America) 1.832.813.4984 (International)

Transport:

CHEMTREC 800.424.9300 or 703.527.3887(int'l)

Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090

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Mexico CHEMTREC 01-800-681-9531 (24 hours)

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Argentina: +(54)-1159839431

EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week) Belgium: 070 245 245 (24 hours/day, 7 days/week)

Bulgaria: +359 2 9154 233

Croatia: +3851 2348 342 (24 hours/day, 7 days/week)

Cyprus: 1401

Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402

Denmark: Danish Poison Center (Giftlinjen): +45 8212 1212 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Finland: 0800 147 111 09 471 977 (24 hours/day)

France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)

Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Greece: (0030) 2107793777 (24 hours/day, 7 days/week)

Hungary: +36-80-201-199 (24 hours/day, 7 days/week) Iceland: 543 2222 (24 hours/day, 7 days/week)

Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Italy: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371

67042473. (24 hours.)

Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Lithuania: +370 (85) 2362052

Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week)

Malta: +356 2395 2000

The Netherlands: NVIC: +31 (0)88 755 8000 Norway: 22 59 13 00 (24 hours/day, 7 days/week)

Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Portugal: CIAV phone number: +351 800 250 250

Romania: +40213183606 Slovakia: +421 2 5477 4166 Slovenia: Phone number: 112

Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24

hours/day, 7 days/week)

Sweden: 112 – ask for Poisons Information

Responsible Department Product Safety and Toxicology Group

E-mail address SDS@CPChem.com Website www.CPChem.com

SECTION 2: Hazards identification

2.1

Classification of the substance or mixture **REGULATION (EC) No 1272/2008**

Acute toxicity, Category 3 H331:

Toxic if inhaled.

Skin irritation, Category 2 H315:

Causes skin irritation.

Eye irritation, Category 2 H319:

Causes serious eye irritation.

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Specific target organ toxicity - single H336:

exposure, Category 3, Central nervous May cause drowsiness or dizziness.

system

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Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal Word : Danger

Hazard Statements : H315 Causes skin irritation.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H336 May cause drowsiness or dizziness.

Precautionary Statements : Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/

vapors/ spray.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face

protection.

Response:

P304 + P340 + P311 IF INHALED: Remove person to fresh

air and keep comfortable for breathing. Call

a POISON CENTER/ doctor.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

Storage:

P403 + P233 Store in a well-ventilated place. Keep

container tightly closed.

Hazardous ingredients which must be listed on the label:

• 544-40-1 n-Butyl Sulfide

2.3

Other hazards

Results of PBT and vPvB

assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1%

or higher.

Endocrine disrupting

properties

: The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

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levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 - 3.2

Substance or Mixture

Synonyms : Dinormal Butyl Sulfide

normal-Butyl Sulfide 5-Thianonane

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DNBS

n-Butyl Sulfide 1,1-Thiobisbutane

Molecular formula : C8H18S

Hazardous ingredients

Chemical name	CAS-No.	Classification	Concentration	Specific Conc.
	EC-No.	(REGULATION (EC)	[wt%]	Limits, M-factors
	Index No.	No 1272/2008)		and ATEs
n-Butyl Sulfide	544-40-1 208-870-5	Acute Tox. 3; H331 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H336	95 - 100	

For the full text of the H-Statements mentioned in this Section, see Section 16.

May contain Di-sec-butyl sulfide up to 5 wt%.

SECTION 4: First aid measures

4.1

Description of first-aid measures

General advice : Move out of dangerous area. Consult a physician. Show this

material safety data sheet to the doctor in attendance. Material

may produce a serious, potentially fatal pneumonia if

swallowed or vomited.

If inhaled : Call a physician or poison control center immediately. If

unconscious, place in recovery position and seek medical

advice.

In case of skin contact : If skin irritation persists, call a physician. If on skin, rinse well

with water. If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water. Remove contact

lenses. Protect unharmed eye. Keep eye wide open while

rinsing. If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear. Never give anything by mouth to

an unconscious person. If symptoms persist, call a physician.

Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed Notes to physician

Symptoms : No data available.

Risks : No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No data available.

SECTION 5: Firefighting measures

Flash point : 65,56°C (150,01°F)

Method: ASTM D 93

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Autoignition temperature : 216°C (421°F)

5.1

Extinguishing media

Suitable extinguishing

media

: Carbon dioxide (CO2).

Unsuitable extinguishing

media

: High volume water jet.

5.2

Special hazards arising from the substance or mixture

Specific hazards during fire

fighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

5.3

Advice for firefighters

Special protective equipment for fire-fighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case

of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed

containers.

Fire and explosion

protection

Do not spray on a naked flame or any incandescent material.

Keep away from open flames, hot surfaces and sources of

ignition.

Hazardous decomposition

products

: Carbon oxides. Sulfur oxides.

SECTION 6: Accidental release measures

6.1

Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Ensure adequate

ventilation. Evacuate personnel to safe areas.

6.2

Environmental precautions

Environmental precautions : Prevent product from entering drains. Prevent further leakage

or spillage if safe to do so. If the product contaminates rivers

and lakes or drains inform respective authorities.

6.3

Methods and materials for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible

absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable,

closed containers for disposal.

6.4

Reference to other sections

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Reference to other sections : For personal protection see section 8. For disposal

considerations see section 13.

SECTION 7: Handling and storage

7.1

Precautions for safe handling Handling

Advice on safe handling : Avoid formation of aerosol. Do not breathe vapors/dust. Avoid

exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance

with local and national regulations.

Advice on protection against fire and explosion

: Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of

ignition.

7.2

Conditions for safe storage, including any incompatibilities

Storage

Requirements for storage areas and containers

: Prevent unauthorized access. No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the

1 mg/m3

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technological safety standards.

German storage class : Combustible Solids

7.3

Specific End Use

Use : Manufacture of plastics products

SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

SK

n-Butyl Mercaptan

U.1				
Zložky	Podstata	Hodnota	Kontrolné parametre	Poznámka
n-Butyl Mercaptan	SK OEL	NPEL priemerný	0,5 ppm, 1,9 mg/m3	
	SK OEL	NPEL krátkodobý	1 ppm, 3,8 mg/m3	
SI				
Sestavine	Osnova	Vrednost	Parametri nadzora	Pripomba
n-Butyl Mercaptan	SI OEL	MV	0,5 ppm, 1,9 mg/m3	
•	SI OEL	KTV	1 ppm, 3,8 mg/m3	
PT				
Componentes	Bases	Valor	Parâmetros de controlo	Nota
n-Butyl Mercaptan	PT OEL	VLE-MP	0,5 ppm,	
PL				
Składniki	Podstawa	Wartość	Parametry dotyczące kontroli	Uwaga

NDS

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PL NDS

ilus iec - Sullui	[·] Calibration St	tandard		
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	PL NDS	NDSch	2 mg/m3	1
10		1.1200	2g,c	
Komponenter	Grunnlag	Verdi	Kontrollparametrer	Nota
n-Butyl Mercaptan	FOR-2011-12-06-	GV	0,5 ppm, 1,5 mg/m3	
	1358		о,о рр, т,одо	
ИК Съставки	Основа	Стойност	Параметри на	Бележка
a Dutal Managatan	MICOEL	207	контрол	
n-Butyl Mercaptan	MK OEL	MV	0,5 ppm, 1,9 mg/m3	
<u>\$</u>		T.v. 1:		Lar
Nomponenter n-Butyl Mercaptan	Grunnlag IS OEL	Verdi TWA	Kontrollparametrer 0,5 ppm, 1,5 mg/m3	Nota
	IO OLL	IWA	0,0 ppm, 1,0 mg/mo	1
E Components	Pagin	Value	Control norometers	Note
n-Butyl Mercaptan	Basis IE OEL	Value OELV - 8 hrs (TWA)	Control parameters 0,5 ppm, 1,8 mg/m3	Note
,		1 0 0 (1777)	-/	1
IR Sastojci	Temelj	Vrijednost	Nadzorni parametri	Bilješka
n-Butyl Mercaptan	HR OEL	GVI	0,5 ppm, 1,5 mg/m3	IR-D,
IR-D iritacija dišnih orga	ana		7 7 11 7 7	1
GR .				
Συστατικά	Βάση	Τιμή	Παράμετροι ελέγχου	Σημείωση
n-Butyl Mercaptan	GR OEL	TWA	0,5 ppm, 1,8 mg/m3	
FR .				
Composants	Base	Valeur	Paramètres de	Note
			contrôle	Malassa Parks
n-Butyl Mercaptan	FR VLE	VME	0,5 ppm, 1,5 mg/m3	Valeurs limites indicatives,
Aineosat	Peruste	Arvo	Valvontaa koskevat muuttujat	Huomautus
n-Butyl Mercaptan	FI OEL	HTP-arvot 8h	0,5 ppm, 1,9 mg/m3	
	FI OEL	HTP-arvot 15 min	1,5 ppm, 5,6 mg/m3	
ES .				1
Componentes	Base ES VLA	Valor VLA-ED	Parámetros de control	Nota
n-Butyl Mercaptan	ES VLA	VLA-ED	0,5 ppm, 1,9 mg/m3	
OK .	15.	T., "		I.s.
Komponenter n-Butyl Mercaptan	Basis DK OEL	Værdi GV	Kontrolparametre 0,5 ppm, 1,5 mg/m3	Note
11-butyl Mercaptan	DR OLL	GV	0,5 ppm, 1,5 mg/m5	<u> </u>
DE	On an allowe	NA/ - mt	7	Damani una
Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
n-Butyl Mercaptan	DE TRGS 900	AGW	0,5 ppm, 1,9 mg/m3	Υ,
Y Ein Risiko der Fru nicht befürchtet zu		haltung des Arbeitsplatzgr	renzwertes und des biologischer	n Grenzwertes (BGW
	ı werden			
CZ Složky	Základ	Hodnoto	Kontrolní parametry	Poznámka
n-Butyl Mercaptan	CZ OEL	Hodnota PEL	1,5 mg/m3	FUZIIAIIIKA
	CZ OEL	NPK-P	3 mg/m3	
СН				
Inhaltsstoffe	Grundlage	Wert	Zu überwachende	Bemerkung
	ŭ		Parameter	, and the second
n-Butyl Mercaptan	CH SUVA	MAK-Wert	0,5 ppm, 1,9 mg/m3	NIOSH, SSc,
NIOSH National Institute	CH SUVA for Occupational Safety and H		1 ppm, 3,8 mg/m3	NIOSH, SSc,
	der Leibesfrucht braucht bei E	inhaltung des MAK-Wertes	s nicht befürchtet zu werden.	
SSc Eine Schädigung				
SSc Eine Schädigung BE Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
SSc Eine Schädigung	Basis BE OEL	Waarde TGG 8 hr	Controleparameters 0,5 ppm, 1,8 mg/m3	Opmerking
SSc Eine Schädigung BE Bestanddelen				Opmerking

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			Parameter	
n-Butyl Mercaptan	AT OEL	MAK-TMW	0,5 ppm, 1,9 mg/m3	
	AT OEL	MAK-KZW	0,5 ppm, 1,9 mg/m3	

8.2

Exposure controls Engineering measures

Adequate ventilation to control airborned concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Personal protective equipment

Respiratory protection : If ventilation or other engineering controls are not adequate to

maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved respirator may be appropriate. If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that provides protection may be appropriate, such as:. Full-Face Supplied-Air Respirator. A positive pressure, air-supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, exposure levels are not

known, or other circumstances where air-purifying respirators

may not provide adequate protection.

Hand protection : The suitability for a specific workplace should be discussed

with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection : Eye wash bottle with pure water.

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Flame retardant protective clothing. Personal protection through wearing a tightly closed chemical protection suit and a self-contained breathing apparatus. Footwear protecting against chemicals.

Hygiene measures : Avoid contact with skin, eyes and clothing. When using do not

eat or drink. When using do not smoke. Wash hands before

breaks and immediately after handling the product.

SECTION 9: Physical and chemical properties

9.1

Information on basic physical and chemical properties

Appearance

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Form : liquid
Physical state : liquid
Color : Clear
Odor : Repulsive

Safety data

Flash point : 65,56°C (150,01°F)

Method: ASTM D 93

Lower explosion limit : 0,8 %(V)

Upper explosion limit : 6,8 %(V)

Oxidizing properties : No

Autoignition temperature : 216°C (421°F)

Molecular formula : C8H18S

Molecular weight : 146,32 g/mol

pH : No data available

Freezing point : -75°C (-103°F)

Boiling point/boiling range : 180-191°C (356-376°F)

Vapor pressure : 0,10 PSI

at 38°C (100°F)

Relative density : 0,84

at 15,6 °C (60,1 °F)

Density : 841,2 g/l

at 16°C (60°F)

Water solubility : negligible

Viscosity, dynamic : 1,05 cP

at 20°C (68°F)

Relative vapor density : 5,07

(Air = 1.0)

Evaporation rate : 1

Percent volatile : > 99 %

9.2

Other information

Conductivity : No data available

SECTION 10: Stability and reactivity

10.1

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Reactivity : Stable under recommended storage conditions.

10.2

Chemical stability : This material is considered stable under normal ambient and

anticipated storage and handling conditions of temperature

and pressure.

10.3

Possibility of hazardous reactions

Hazardous reactions : Hazardous polymerization does not

occur.

Further information: No decomposition if stored and applied as

directed.

Hazardous reactions: Vapors may form explosive mixture with

air.

10.4

Conditions to avoid : Heat, flames and sparks.

10.5

Materials to avoid : Avoid oxidizing agents.

10.6

Hazardous decomposition

products

: Carbon oxides Sulfur oxides

Other data : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1

Information on toxicological effects

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Acute oral toxicity : Presumed Not Toxic

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Acute inhalation toxicity : Presumed Not Toxic

TrusTec™ Sulfur Calibration Standard

Acute dermal toxicity : Presumed Not Toxic

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Skin irritation : No skin irritation

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Eye irritation : No eye irritation

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Sensitization : Did not cause sensitization on laboratory animals.

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Aspiration toxicity : May be harmful if swallowed and enters airways.

Toxicology Assessment

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Specific Target Organ : Remarks: No adverse effects expected

Toxicity (Single Exposure)

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Specific Target Organ : Remarks: No adverse effects expected

Toxicity (Repeated

Exposure)

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CMR effects : Carcinogenicity:

No adverse effects expected

Mutagenicity:

No adverse effects expected Reproductive toxicity: No adverse effects expected

11.2

Information on other hazards

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Further information : Symptoms of overexposure may be headache, dizziness,

tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents

may degrease the skin.

Endocrine disrupting

properties

: The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

SECTION 12: Ecological information

12.1

Toxicity

Ecotoxicity effects

Toxicity to fish : This material is not expected to be harmful to aquatic

organisms.

Toxicity to daphnia and other aquatic invertebrates

n-Butyl Sulfide : 1,71 mg/l

Exposure time: 48 h Species: Daphnia

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Method: QSAR modeled data

12.2

Persistence and degradability

Biodegradability

n-Butyl Sulfide : This material is not expected to be readily biodegradable.

12.3

Bioaccumulative potential

Bioaccumulation

n-Butyl Sulfide : Concentration: 165 mg/l Method: QSAR modeled data

This material is not expected to bioaccumulate.

12.4

Mobility in soil

Mobility

n-Butyl Sulfide : Method: Calculation, Mackay Level III Fugacity Model

The product will be dispersed amongst the various environmental compartments (soil/ water/ air).

12.5

Results of PBT and vPvB assessment

Results of PBT assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

12.6

Endocrine disrupting properties

Endocrine disrupting

properties

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

12.7

Other adverse effects

Additional ecological

information

: Toxic to aquatic life with long lasting effects.

12.8

Additional Information

Ecotoxicology Assessment

Short-term (acute) aquatic hazard

: This material is not expected to be harmful to aquatic

organisms.

Long-term (chronic) aquatic

hazard

: This material is not expected to be harmful to aquatic

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organisms.

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SECTION 13: Disposal considerations

13.1

Waste treatment methods

The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product : The product should not be allowed to enter drains, water

courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed

waste management company.

Contaminated packaging : Empty remaining contents. Dispose of as unused product.

Do not re-use empty containers. Do not burn, or use a cutting

torch on, the empty drum.

SECTION 14: Transport information

14.1 - 14.7

Transport information

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

NA1993, COMBUSTIBLE LIQUID, N.O.S., (N-BUTYL SULFIDE, DI-SEC-BUTYL SULFIDE), III

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-BUTYL SULFIDE), 9, III, (65,56 °C c.c.), MARINE POLLUTANT, (N-BUTYL SULFIDE)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN3334, AVIATION REGULATED LIQUID, N.O.S., (N-BUTYL SULFIDE), 9, III

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-BUTYL SULFIDE), 9, III, (-)

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))

90,UN3082,ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-BUTYL

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SULFIDE), 9, III

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-BUTYL SULFIDE), 9, III

Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

15.1

Safety, health and environmental regulations/legislation specific for the substance or mixture **National legislation**

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Update:

Water hazard class

(Germany)

not water endangering : nwg

15.2

Major Accident Hazard

Legislation

: 96/82/EC

Toxic

Quantity 1: 50 t Quantity 2: 200 t

: ZEU SEVES3 Update: **ENVIRONMENTAL HAZARDS**

Quantity 1: 200 t Quantity 2: 500 t

Notification status

Europe REACH A substance or substances in this product is not

> registered or notified to be registered. Importation or manufacture of this product is still permitted provided that it does not exceed the REACH minimum threshold

quantity of the non-regulated substances.

Switzerland CH INV

United States of America (USA)

TSCA

On the inventory, or in compliance with the inventory On or in compliance with the active portion of the

TSCA inventory

Canada DSL All components of this product are on the Canadian

DSL

Australia AIIC Not in compliance with the inventory

On the inventory, or in compliance with the inventory New Zealand NZIoC Japan ENCS On the inventory, or in compliance with the inventory Korea KECI A substance(s) in this product was not registered,

notified to be registered, or exempted from registration by CPChem according to K-REACH regulations.

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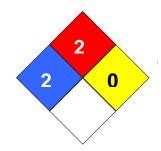
Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance or the exported amount does not exceed the minimum threshold quantity of the non-registered substance(s).

Philippines PICCS : On the inventory, or in compliance with the inventory Taiwan TCSI : On the inventory, or in compliance with the inventory China IECSC : On the inventory, or in compliance with the inventory

SECTION 16: Other information

NFPA Classification : Health Hazard: 2

Fire Hazard: 2 Reactivity Hazard: 0



Further information

Legacy SDS Number : 42960

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this SDS pertains only to the product as shipped.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Key	y or legend to abbreviations and a	cronyms used in	the safety data sheet
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AIIC	Australian Inventory of Industrial Chemicals	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration	PRNT	Presumed Not Toxic

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TrusTec™ Sulfur Calibration Standard

Version 1.5 Revision Date 2023-09-11

	Values		
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%	ATE	Acute toxicity estimate

Full text of H-Statements referred to under sections 2 and 3.

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness

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